CLAIMS

What is claimed is:

1   1.   A home server comprising:

2   a personalization engine to create personal preference information from a user

3   regarding a content, the personal preference information being represented in a

4   description compatible with a content analyzer in an edge server; and

5   a content scheduler coupled to the personalization engine to schedule delivery

6   of the content from the edge server and uploading of the personal preference

7   information to the edge server.

1   2.   The home server of claim 1 further comprising:

2   a local storage to cache the content delivered from the edge server; and

3   a content manager coupled to the local storage to manage the cached content.

1   3.   The home server of claim 1 wherein the description is compatible with a

2   metadata associated with the content.

1   4.   The home server of claim 3 wherein the metadata is one of a closed

2   caption, a Resource Description Framework (RDF), motion picture expert group

3   (MPEG)-7, TV-Anytime metadata, a Society of Motion Picture and Television

4   Engineers (SMPTE) metadata dictionary, a Dublin Core descriptor, and an European

5   Broadcasting Union (EBU) P/meta.

1   5.   The home server of claim 1 wherein the personalization engine

2   comprises:

3   a deduction engine to deduce the personal preference information based on

4   user's usage.

1   6.   The home server of claim 1 wherein the personalization engine

2   comprises:

3   an input interface to obtain the personal preference information provided by the

4   user.

1   7.   The home server of claim 2 wherein the content manager comprises:

2   a retriever to retrieve the cache content;

3   an indexer to index the cache content; and

4   a distributor to distribute the retrieved cache content to a device.

1   8.   The home server of claim 7 wherein the content manager further

2 comprises:

3   a decryptor to decrypt the cache content; and

4   an archiver to archive the cached content.

1   9.   The home server of claim 7 wherein the device is one of a viewing

2 device, a personal digital assistant (PDA), an audio visual device, a tablet, a personal

3 computer, a set-top box, a digital television set, and a wireless device.

1   10.   An edge server comprising:

2   a content analyzer to analyze a content received from a media source based on a

3 description compatible with personal preference information from a user regarding the

4 content, the personal preference information being provided by a home server; and

5   a content filter coupled to the content analyzer to filter the content according to

6 the personal preference information for delivery to the user.

1   11.   The edge server of claim 10 further comprising:

2   a content assembler to assemble the filtered content using the description into a

3 packaged content according to an assembly criterion; and

4   a content distributor coupled to the content assembler to distribute the packaged

5 content to the user based on delivery information provided by the home server.

1   12.   The edge server of claim 10 wherein the media source is one of a Web

2 content, a television broadcast, a media broadcast, a video program, an audio program,

3 and an audio visual program.

1   13.   The edge server of claim 10 wherein the description is compatible with a

2 metadata associated with the content.

1   14.   The edge server of claim 13 wherein the metadata is one of a closed

2   caption, a Resource Description Framework (RDF), motion picture expert group

3   (MPEG)-7, a TV-Anytime metadata, a Society of Motion Picture and Television

4   Engineers (SMPTE) metadata dictionary, a Dublin Core descriptor, and an European

5   Broadcasting Union (EBU) P/meta.

1   15.   The edge server of claim 10 wherein the assembly criterion is one of a

2   semantic topic and a subscription level.

1   16.   The edge server of claim 10 wherein the delivery information includes at

2   least a scheduled time, a quality of service information, and a transmission bandwidth.

1   17.   The edge server of claim 13 wherein the content analyzer comprises:

2   a parser to parse the metadata.

1   18.   The edge server of claim 10 wherein the content analyzer comprises:

2   a metadata creator to create a metadata associated with the content.

1   19.   The edge server of claim 10 wherein the content filter comprises:

2   a matcher to match the description with the personal preference information.

1   20.   A method comprising:

2   creating personal preference information from a user regarding a content, the

3   personal preference information being represented in a description compatible with a

4   content analyzer in an edge server; and

5   scheduling delivery of the content from the edge server and uploading of the

6   personal preference information to the edge server.

1   21.   The method of claim 20 further comprising:

2   caching the content delivered from the edge server; and

3   managing the cached content.

1   22.   The method of claim 20 wherein the description is compatible with a

2   metadata associated with the content.

1   23.   The method of claim 22 wherein the metadata is one of a closed caption,

2   a Resource Description Framework (RDF), motion picture expert group (MPEG)-7,

3   TV-Anytime metadata, a Society of Motion Picture and Television Engineers (SMPTE)

4   metadata dictionary, a Dublin Core descriptor, and an European Broadcasting Union

5   (EBU) P/meta.

1   24.   The method of claim 20 wherein creating personal preference

2   information comprises:

3   deducing the personal preference information based on user's usage.

1   25.   The method of claim 20 wherein creating personal preference

2   information comprises:

3   obtaining the personal preference information provided by the user.

1   26.   The method of claim 21 wherein scheduling delivery comprises:

2   retrieving the cache content;

3   indexing the cache content; and

4   distributing the retrieved cache content to a device.

1   27.   The method of claim 26 wherein scheduling delivery further comprises:

2   decrypting the cache content; and

3   archiving the cached content.

1   28.   The method of claim 26 wherein the device is one of a viewing device, a

2   personal digital assistant (PDA), an audio visual device, a tablet, a personal computer, a

3   set-top box, a digital television set, and a wireless device.

1   29.   A method comprising:

2   analyzing a content received from a media source based on a description

3   compatible with personal preference information from a user regarding the content, the

4   personal preference information being provided by a home server; and

5   filtering the content according to the personal preference information for

6   delivery to the user.

1   30.   The method of claim 29 further comprising:

2   assembling the filtered content using the description into a packaged content

3   according to an assembly criterion; and

4   distributing the packaged content to the user based on delivery information

5   provided by the home server.

1   31.   The method of claim 29 wherein the media source is one of a Web

2   content, a television broadcast, a media broadcast, a video program, an audio program,

3   and an audio visual program.

1   32.   The method of claim 29 wherein the description is compatible with a

2   metadata associated with the content.

1   33.   The method of claim 32 wherein the metadata is one of a closed caption,

2   a Resource Description Framework (RDF), motion picture expert group (MPEG)-7, a

3   TV-Anytime metadata, a Society of Motion Picture and Television Engineers (SMPTE)

4   metadata dictionary, a Dublin Core descriptor, and an European Broadcasting Union

5   (EBU) P/meta.

1   34.   The method of claim 29 wherein the assembly criterion is one of a

2   semantic topic and a subscription level.

1   35.   The method of claim 29 wherein the delivery information includes at

2   least a scheduled time, a quality of service information, and a transmission bandwidth.

1   36.   The method of claim 32 wherein analyzing comprises:

2   parsing the metadata.

1   37.   The method of claim 29 wherein analyzing comprises:

2   creating a metadata associated with the content.

1   38.   The method of claim 29 wherein filtering comprises:

2   matching the description with the personal preference information.

1   39.   A system comprising:

2   a media source to provide a media content;

3   an edge server connected to a network; and

4   a home server coupled to the edge server via the network, the home sever

5   comprising:

6   a personalization engine to create personal preference information from

7   a user regarding a content, the personal preference information being

8   represented in a description compatible with a content analyzer in the

9   edge server; and

10   a content scheduler coupled to the personalization engine to schedule

11   delivery of the content from the edge server and uploading of the

12   personal preference information to the edge server.

1   40.   The system of claim 39 further comprising:

2   a local storage to cache the content delivered from the edge server; and

3   a content manager coupled to the local storage to manage the cached content.

1   41.   The system of claim 39 wherein the description is compatible with a

2   metadata associated with the content.

1   42.   The system of claim 41 wherein the metadata is one of a closed caption,

2   a Resource Description Framework (RDF), motion picture expert group (MPEG)-7,

3   TV-Anytime metadata, a Society of Motion Picture and Television Engineers (SMPTE)

4   metadata dictionary, a Dublin Core descriptor, and an European Broadcasting Union

5   (EBU) P/meta.

1   43.   The system of claim 39 wherein the personalization engine comprises:

2   a deduction engine to deduce the personal preference information based on

3   user's usage.

1   44.   The system of claim 39 wherein the personalization engine comprises:

2   an input interface to obtain the personal preference information provided by the

3   user.

1   45.   The system of claim 40 wherein the content manager comprises:

2   a retriever to retrieve the cache content;

3   an indexer to index the cache content;

4   a distributor to distribute the retrieved cache content to a device.

1   46.   The system of claim 45 wherein the content manager further comprises:

2   a decryptor to decrypt the cache content; and

3   an archiver to archive the cached content.

1   47.   The system of claim 45 wherein the device is one of a viewing device, a

2 personal digital assistant (PDA), an audio visual device, a tablet, a personal computer, a

3 set-top box, a digital television set, and a wireless device.

1   48.   A system comprising:

2   a media source to provide a media content;

3   a home server connected to a network; and

4   an edge server coupled to the home server via the network, the edge server

5 comprising:

6   a content analyzer to analyze a content received from a media source

7   based a description compatible with personal preference information

8   from a user regarding the content, the personal preference information

9   being provided by a home server; and

10   a content filter coupled to the content analyzer to filter the content

11   according to the personal preference information for delivery to the user.

1   49.   The system of claim 48 further comprising:

2   a content assembler to assemble the filtered content using the description into a

3 packaged content according to an assembly criterion; and

4   a content distributor coupled to the content assembler to distribute the packaged

5 content to the user based on delivery information provided by the home server.

1   50.   The system of claim 48 wherein the media source is one of a Web

2 content, a television broadcast, a media broadcast, a video program, an audio program,

3 and an audio visual program.

1   51.   The system of claim 48 wherein the description is compatible with a

2   metadata associated with the content.

1   52.   The system of claim 51 wherein the metadata is one of a closed caption,

2   a Resource Description Framework (RDF), motion picture expert group (MPEG)-7, a

3   TV-Anytime metadata, a Society of Motion Picture and Television Engineers (SMPTE)

4   metadata dictionary, a Dublin Core descriptor, and an European Broadcasting Union

5   (EBU) P/meta.

1   53.   The system of claim 48 wherein the assembly criterion is one of a

2   semantic topic and a subscription level.

1   54.   The system of claim 48 wherein the delivery information includes at

2   least a scheduled time, a quality of service information, and a transmission bandwidth.

1   55.   The system of claim 51 wherein the content analyzer comprises:

2   a parser to parse the metadata.

1   56.   The system of claim 48 wherein the content analyzer comprises:

2   a metadata creator to create a metadata associated with the content.

1   57.   The system of claim 48 wherein the content filter comprises:

2   a matcher to match the description with the personal preference information.